

ABSTRACT

A receiver, for receiving a signal transmitted over a channel by a transmitter that includes a Tomlinson-Harashima precoder. The receiver includes a feed-forward equalizer (FFE), adapted to apply a feed-forward equalization function to the signal, so as to generate a sequence of equalized samples. A decision block is coupled to receive the equalized samples from the FFE and to generate a sequence of decision output samples responsive thereto, the decision block comprising an adaptive filter, having coefficients determined adaptively responsive to a characteristic of the channel. A Tomlinson-Harashima decoder is coupled to receive and decode the decision output samples so as to reconstruct the sequence of input symbols.